## => d his

(FILE 'HOME' ENTERED AT 17:57:21 ON 16 JAN 2004)

FILE 'CAPLUS' ENTERED AT 18:00:09 ON 16 JAN 2004 E SCHLOEMER G/IN

Ll 17 S E4-E6

L2 0 S L1 AND ACETAMIDE?

L3 0 S L1 AND IMIDAZO?

7 S L1 AND PROCESS L4 L5 5 S DIMETHYLGLYOXYLAMIDE

SELECT L5 5 RN

FILE 'REGISTRY' ENTERED AT 18:16:26 ON 16 JAN 2004 3 S E1-E3 L6

FILE 'CAPLUS' ENTERED AT 18:18:30 ON 16 JAN 2004 SELECT L5 4 RN

FILE 'REGISTRY' ENTERED AT 18:18:53 ON 16 JAN 2004

L7 3 S E4-E6

FILE 'REGISTRY' ENTERED AT 18:30:24 ON 16 JAN 2004  $r_8$ STRUCTURE UPLOADED

L9 0 S L8

FILE 'BEILSTEIN' ENTERED AT 18:31:02 ON 16 JAN 2004

L10 0 S L8 L11 1 S L8 SSS FULL

FILE 'REGISTRY' ENTERED AT 18:32:54 ON 16 JAN 2004 2 S L8 SSS FULL

FILE 'CAPLUS' ENTERED AT 18:33:36 ON 16 JAN 2004 L13 4 S L12

=> d 18

L8 HAS NO ANSWERS

STR OH

G1 Me, Et, n-Pr, i-Pr, n-Bu, i-Bu, s-Bu, t-Bu

```
=> d 1-4 bib abs hitstr
      ANSWER 1 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN
      1991:101100 CAPLUS
DN
      One-pot synthesis of N,N,N',N'-tetrasubstituted ureas and oxomalonamides
ΤI
      by oxidative carbonylation of lithium amides at atmospheric pressure
ΑIJ
      Nudelman, Norma S.; Lewkowicz, Elizabeth S.; Perez, Daniel G.
      Fac. Cienc. Exactas, Univ. Buenos Aires, Buenos Aires, 1428, Argent.
CS
      Synthesis (1990), (10), 917-20
CODEN: SYNTBF; ISSN: 0039-7881
SO
DT
      Journal
      English
LΑ
      CASREACT 114:101100
OS
      N,N,N',N'-tetrasubstituted ureas RRINCONRR1 (R = R1 = Bu, cyclohexyl,
AB
      CHMe2, cyclohexyl) were prepd. in good yields by reaction of lithium
      aliph. amides RRINLi in THF soln. with CO under mild conditions
      (0.degree., 1013 mbar) followed by treatment with oxygen prior to work up.
      N,N,N',N'-tetrasubstituted oxomalonamides (oxopropanediamides)
      RRINCOCOCONRR1 were prepd. under similar reaction conditions by carrying
      out the reaction in the presence of known amts. of the pure amine.
      Besides being an useful synthetic method, the present studies afford new
      evidence of the mechanism of the reaction.
TT
      83862-73-1P
      RL: SPN (Synthetic preparation); PREP (Preparation)
      (prepn. of)
83862-73-1 CAPLUS
RN
CN
     Acetamide, 2,2'-oxybis[N,N-dibutyl-2-hydroxy- (9CI) (CA INDEX NAME)
           о он
                     OH O
(n-Bu) 2N-C-CH-O-CH-C-N (Bu-n) 2
L13
     ANSWER 2 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN
      1988:55481 CAPLUS
      Carbon-carbon bond formation through the carbonylation of lithium
      dialkylamides. One-pot synthesis of N-alkyl-substituted formamides,
      glyoxylamides, and hydroxymalonamides
      Perez, Daniel G.; Nudelman, N. Sbarbati
     Fac. Cienc. Exactas, Univ. Buenos Aires, Buenos Aires, 1428, Argent.
cs
     Journal of Organic Chemistry (1988), 53(2), 408-13
     CODEN: JOCEAH; ISSN: 0022-3263
DΤ
     Journal
LA
      English
os
     CASREACT 108:55481
     The reaction of RRINLi (R = Rl = Bu, pentyl, cyclohexyl; R = iso-Pr, Rl = cyclohexyl; RRI = 3-oxapentamethylene) with CO to yield RRINCHO, (RRINCOCHOH) 20, and RRINCOCH(OH) CONRRI (R, Rl = same as above) was examd.
     under a no. of different conditions. Evidence supporting a lithium carbamoyl intermediate for the latter compds. is presented. A general
     procedure for the prepn. of tetraalkylureas, tetraalkyloxalamides, and
     tetraalkyloxomalonamides is given.
IT
     83862-73-1P
     RL: SPN (Synthetic preparation); PREP (Preparation)
     (prepn. of)
83862-73-1 CAPLUS
RN
CN
     Acetamide, 2,2'-oxybis[N,N-dibutyl-2-hydroxy- (9CI) (CA INDEX NAME)
                    ОН О
(n-Bu) 2N-C-CH-O-CH-C-N(Bu-n) 2
L13 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN
     1983:34210 CAPLUS
AN
DN
     98:34210
     Insertion of carbon monoxide into lithium-nitrogen bonds. One-pot
```

synthesis of dialkylformamides and dialkylgloxylamides

Fac. Cienc. Exactas Nat., Univ. Buenos Aires, Buenos Aires, 1428, Argent. Journal of Organic Chemistry (1983), 48(1), 133-4

Nudelman, N. Sbarbati; Perez, Daniel

CODEN: JOCEAH; ISSN: 0022-3263

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10/620209
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DT
     Journal
     English
LA
     CASREACT 98:34210
OS
     Lithium dialkylamides react with CO to afford dialkylformamides (1),
AB
     tetralkylhydroxymalonamides and dialkylglyoxylamides (II). Reaction
     conditions are described to produce I or II in good yields.
IT
     83862-73-1P
     RL: SPN (Synthetic preparation); PREP (Preparation)
        (prepn. of)
     83862-73-1 CAPLUS
RN
CN
     Acetamide, 2,2'-oxybis[N,N-dibutyl-2-hydroxy- (9CI) (CA INDEX NAME)
```

```
=> s dimethylglyoxylamide
               5 DIMETHYLGLYOXYLAMIDE
=> d 1-5 bib abs kwic
L5
      ANSWER 1 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN
     2003:887680 CAPLUS
AN
DN
      139:364844
      Preparation of indolizines as sPLA2 inhibitors
TI
      Dillard, Robert D.; Hagishita, Sanji; Ohtani, Mitsuaki
IN
PA
     Eli Lilly and Company, USA; Shiongi and Company, Ltd.
SO
      U.S., 62 pp., Cont.-in-part of U.S. Ser. No. 278,445.
      CODEN: USXXAM
חת
      Patent
I.A
     English
FAN. CNT 2
      PATENT NO.
                          KIND DATE
                                                   APPLICATION NO. DATE
ΡI
     US 6645976
                           B1
                                 20031111
                                                   US 1997-765566
     WO 9603383
                                 19960208
                                                   WO 1995-US9381
                           A1
                                                                       19950720
          W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI,
               GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD,
               MG, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SB, SG, SI, SK, TJ,
               TM, TT
          RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT,
               LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE,
               SN, TD, TG
PRAI US 1994-278445
                           A2
                                 19940721
     WO 1995-US9381
                                 19950720
     MARPAT 139:364844
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *
     Title compds. I, II, III [wherein X = O or S; R11 = independently H,
     alkyl, or halo; R12 = H, halo, (cyclo)alkyl, cycloalkenyl, alkoxy, alkylthio, or a non-interfering substituent having 1-3 atoms other than H;
     R13 = (un)substituted alkyl, alkenyl, alkynyl, (hetero)cyclyl optionally connected by a linking group; R15 and R16 = independently H,
     non-interfering substituent, or (un) substituted (hetero)cyclyl; R17 and R18 = independently H, non-interfering substituent, or acidic linker; with
     the proviso that at least one of R17 and R18 must be an acidic linker; or pharmaceutically acceptable salt, ester, or amide prodrug derivs. thereof], and their 3-acetamide, 3-acetic acid hydrazide, and 3-glyoxylamide analogs were prepd. as inhibitors of human secreted
     phospholipase A2 (sPLA2) mediated release of fatty acids. For example
     conversion of 2-methyl-5-methoxypyridine to the anion in THF using lithium
     diisopropylamide and subsequent reaction with benzonitrile produced
     5-methoxy-2-phenacylpyridine (57.0%). Cyclization of the pyridine deriv. with 1-bromo-2-butanone using NaHCO3 in acetone gave the
     1-benzoylindolizine (90.7%), which was reduced by LAH to give
     1-benzyl-2-ethyl-6-methoxyindolizine (94.5%). Acylation (98.5%) with Et
     oxalyl chloride in benzene, followed by sapon. with LiOH in H2O and
     amidation using NH4OH, provided 2-(1-benzyl-2-ethyl-6-methoxyindolizin-3-
     yl)glyoxylamide. Demethylation by BBr3 in CH2Cl2, coupling with Et
     4-bromobutyrate (56.2%) in the presence of NaH in DMF, and hydrolysis with
     LiOH gave the title indolizine IV (49.9%). Eighty-eight compds. of the
     invention inhibited recombinant human sPLA2 in a chromogenic assay with
     IC50 values ranging from 0.006 .mu.M to 1.1 .mu.M, in contrast to IC50
     values >50 .mu.M for comparative examples. Administration of 10/mg/kg of
     the representative compd., 2-[8-(carbomethoxymethoxy)-2-ethyl-3-(2-phenylbenzyl)indolizin-1-yl]glyoxylamide, improved the survival rate of
     male Wistar rats with sPLA2-induced pancreatitis from 33.3% (vehicle) to
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ALL CITATIONS AVAILABLE IN THE RE FORMAT

177556-77-3P, 2-(3-Benzyl-8-hydroxy-2-ethylindolizin-1-yl)acetamide
177556-79-5P, 2-[2-Ethyl-8-hydroxy-3-(0-phenylbenzyl)indolizin-1yl]acetamide
177556-80-8P, 2-[3-(m-Chlorobenzyl)-2-ethyl-8hydroxyindolizin-1-yl]acetamide
177556-81-9P, 2-[2-Cyclopropyl-8-hydroxy3-(0-phenylbenzyl)indolizin-1-yl]acetamide
177556-84-2P,
2-[8-[[(Benzyloxycarbonyl)methyl]oxy]-2-ethyl-3-(0-phenylbenzyl)indolizin-

allergic rhinitis, and rheumatoid arthritis.

RE.CNT 6

91.7%. Thus, invention compds. and their pharmaceutical formulations are useful for the treatment of conditions such as septic shock, adult respiratory distress syndrome, pancreatitis, trauma, bronchial asthma.

THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD

```
177556-85-3P, 2-[8-[[(Benzyloxycarbonyl)methyl]oxy]-3-(m-
 177556-93-3P, 2-(3-Benzyl-8-benzyloxy-2-ethylindolizin-1-yl)glyoxylamide 177556-94-4P, 2-(3-Benzyl-8-benzyloxy-8-benzyloxy-8-benzyloxy-8-benzyloxy-8-benzyloxy-8-benzyloxy-8-benzyloxy-8-benzyloxy-8-benzyloxy-8-benzyloxy-8-
  yl)-N-methylqlyoxylamide
                                                                                                    177556-95-5P, 2-(3-Benzyl-8-benzyloxy-2-
 ethylindolizin-1-yl)-N,N-dimethylglyoxylamide 177556-96-6P,
2-[8-Benzyloxy-2-ethyl-3-(o-phenylbenzyl)indolizin-1-yl]glyoxylamide
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phenylbenzyl)indolizin-1-yl]-N,N-dimethylglyoxylamide
177556-99-9P, 2-(3-Benzyl-8-benzyloxy-2-methylindolizin-1-yl)glyoxylamide
177557-00-5P, 2-[8-Benzyloxy-3-(m-chlorobenzyl)-2-ethylindolizin-1-
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  yl)glyoxylamide 177557-28-7P, 2-(8-Benzyloxy-3-cycloheptylmethyl-2-
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3-(2-phenylethyl)indolizin-1-yl]glyoxylamide 177557-56-1P,
2-[3-(o-Benzylbenzyl)-8-[[(carbomethoxy)methyl]oxy]-2-ethylindolizin-1-
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  yl]glyoxylamide 177557-62-9P, 2-[3-[(Adamant-1-yl)methyl]-8-
  {[(carbomethoxy)methyl]oxy]-2-methylindolizin-1-yl}glyoxylamide
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y1)glyoxylamide 177557-65-2P, 2-{8-{{(Carbomethoxy)methyl}oxy}-3-
cyclohexylmethyl-2-methylindolizin-1-y1}glyoxylamide 177557-74-3P,
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 yl]glyoxylamide 177557-88-9P, 2-[3-[(Biphenyl-2-yl)methyl]-8-
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  177557-89-0P, 2-[3-[(Biphenyl-2-yl)methyl]-8-[[(carbomethoxy)methyl]oxy]-2-
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cyclopropyl-3-{(1-naphthyl)methyl]indolizin-1-yl}glyoxylamide
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phenylbenzyl) indolizin-1-yl]glyoxylamide 177558-00-8P,
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2-[[3-Benzyl-1-(carbamoyImethyI)-2-ethylindolizin-8-yl]oxy]acetate
182115-76-0P, 2-[8-Benzyloxy-2-ethyl-3-[(4-pentylcyclohexyl)methyl]indoliz
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cyclopropylindolizin-1-yl]glyoxylamide 182115-84-0P,
2-[8-Hydroxy-2-ethyl-3-(4-pentylcyclohexylmethyl)indolizin-1-
yl]glyoxylamide 182115-86-2P, 2-[3-Benzyl-8-[[(carbethoxy)methyl]oxy]-2-
ethylindolizin-1-yl]glyoxylamide 182115-87-3P, 2-[8-
[[(Carbethoxy)methyl]oxy]-2-ethyl-3-(o-phenylbenzyl)indolizin-1-yl]glyoxylamide 182115-88-4P, 2-[8-[[(Carbethoxy)methyl]oxy]-3-(m-
vllglvoxvlamide
chlorobenzyl) -2-ethylindolizin-1-yl]glyoxylamide
                                                                   182115-90-8P,
2-[8-[[(Carbethoxy)methyl]oxy]-2-ethyl-3-[(1-naphthyl)methyl]indolizin-1-
yl]glyoxylamide 182115-92-0P, 2-[3-Benzyl-8-[[(carbethoxy)methyl]oxy]-2-methylindolizin-1-yl]glyoxylamide 182115-93-1P, 2-[8-
[[(Carbomethoxy)methyl]oxy]-2-ethyl-3-[(4-pentylcyclohexyl)methyl]indolizi
n-1-yllglyoxylamide
                             182116-42-3P, 2-[7-(5-Carboethoxypentyloxy)-2-ethyl-
3-(o-phenylbenzyl)indolizin-1-yl]glyoxylamide 182116-44-5P,
2-[3-Benzyl-8-[[(methoxycarbonyl)methyl]amino]-2-methylindolizin-1-
yllacetamide
                   182116-45-6P, 2-[3-Benzyl-8-[(carboxymethyl)amino]-2-
methylindolizin-1-yl]acetamide 182116-49-0P, 2-[8-(3-
Carbomethoxypropyloxy)-2-ethyl-3-(o-phenylbenzyl)indolizin-1-
yllglyoxylamide
                       215160-62-6P, 2-[8-[[(Carbomethoxy)methyl]oxy]-2-ethyl-3-
(o-phenylbenzyl)indolizin-1-yl}glyoxylamide 215160-63-7P,
2-[3-Benzyl-8-[[(tert-butoxycarbonyl)methyl]oxy]-2-ethylindolizin-1-
yl]glyoxylamide 215160-64-8P 215160-65-9P 622835-99-8P,
2-[3-(1-Naphthy1)-8-hydroxy-2-ethylindolizin-1-yl]acetamide
622836-00-4P, Methyl 2-[[3-Naphthyl-1-(carbamoylmethyl)-2-ethylindolizin-8-
ylloxylacetate 622836-03-7P, 2-[3-Benzyl-8-[[(carbethoxy)methyl]oxy]-2-ethylindolizin-1-yl]-N-methylglyoxylamide 622836-04-8P,
2-[3-Benzyl-8-[[(carbethoxy)methyl]oxy]-2-ethylindolizin-1-yl]-N,N-dimethylglyoxylamide 622836-05-9P, 2-[8-
[[(Carbethoxy)methyl]oxy]-2-ethyl-3-(o-phenylbenzyl)indolizin-1-yl]-N,N-
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dimethylglyoxylamide 622836-07-1P, 2-{8-(Cyanomethyloxy)-2-ethyl-3-{(1-naphthyl)methyl}indolizin-1-yl}glyoxylamide 622836-33-3P, 2-[3-{(Adamant-1-yl)methyl}-8-benzyloxy-2-ethylindolizin-1-yl}glyoxylamide 622836-34-4P, 8-Benzyloxy-3-(cyclopentylcarbonyl)-2-cyclopropylindolizine
 622836-35-5P, 8-Benzyloxy-3-cyclopentylmethyl-2-cyclopropylindolizine
622836-36-6P, 2-[8-[[(Carbomethoxy)methyl]oxy]-2-ethyl-3-(thiophen-2-
yl)indolizin-1-yl]glyoxylamide 622836-37-7P, 2-(3-Cyclopentylmethyl-2-
 cyclopropyl-8-hydroxyindolizin-1-yl)glyoxylamide
                                                                                               622836~57-1P,
 2-[3-(Biphenyl 2 yl)-8-[[(carbomethoxy)methyl]oxy]-2-methoxyindolizin-1-
yl]glyoxylamide
 RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic
preparation); THU (Therapeutic use); BIOL (Biological study); PREP
 (Preparation); RACT (Reactant or reagent); USES (Uses)
      (SPLA2 inhibitor; prepm. of indolizines as inhibitors of sPLA2 mediated release of fatty acids)
177556-76-2P, 2-[1-Benzyl-6-(3-carboxypropyloxy)-2-ethylindolizin-3-yl]glyoxylamide 177556-87-5P, 2-[3-Benzyl-8-[(carboxymethyl)oxy]-2-ethylindolizin-1-yl]acetamide 177556-89-7P, 2-[8-[(Carboxymethyl)oxy]-2-
ethylindolizin-1-yl]acetamide 177556-89-7P, 2-[8-[(Carboxymeth ethyl-3-(o-phenylbenzyl)indolizin-1-yl]acetamide 177556-90-0P,
2-[8-[(Carboxymethyl)oxy]-3-(m-chlorobenzyl)-2-ethylindolizin-1-yl]acetamide 177556-91-1P, 2-[8-[(Carboxymethyl)oxy]-2-cyclopropyl-3-(o-
phenylbenzyl) indolizin-1-yl]acetamide 177557-67-4P, 2-[2-Ethyl-8-
[(carboxymethyl)oxy]-3-(p-phenylbenzyl) indolizin-1-yl]glyoxylamide
[(carboxymethyl) oxy] -3-(p-phenylbenzyl) indolizin-1-yl]glyoxylamide

177557-68-5P, 2-[8-[(Carboxymethyl) oxy] -3-cyclohexylmethyl-2-
ethylindolizin-1-yl]glyoxylamide 177557-69-6P, 2-[8-[(Carboxymethyl) oxy] -
3-cyclopentylmethyl-2-ethylindolizin-1-yl]glyoxylamide 177557-70-PP,

2-[8-[(Carboxymethyl) oxy] -3-cycloheptylmethyl-2-ethylindolizin-1-
yl]glyoxylamide 177557-71-0P, 2-[8-[(Carboxymethyl) oxy] -2-ethyl-3-
pentylindolizin-1-yl]glyoxylamide 177557-72-1P, 2-[8-
((Carboxymethyl) oxy] -2-ethyl-3-(2-propylpentyl) indolizin-1-yl]glyoxylamide
177557-75-4P, 2-[8-[(Carboxymethyl) oxy] -2-ethyl-3-(2-phenylethyl) indolizin-
1-yl]glyoxylamide 177557-76-5P, 2-[8-[(Carboxymethyl) oxy] -3-(o-
benzylbenzyl) -2-ethylindolizin-1-yl]glyoxylamide 177557-77-6P,

2-[8-[(Carboxymethyl) oxy] -2-ethyl-3-[(thiophen-2-yl)methyl] indolizin-1-
yl]glyoxylamide 177557-78-7P, 2-[8-[(Carboxymethyl) oxy] -2-ethyl-3-[[3-
(thiophen-2-yl)thiophen-2-yl]methyl] indolizin-1-yl]glyoxylamide
177557-79-8P, 2-[2-Ethyl-8-[(carboxymethyl) oxy] -3-(m-
177557-79-8P, 2-[2-Ethyl-8-[(carboxymethyl)oxy]-3-(m-
methoxybenzyl) indolizin-1-yl]glyoxylamide 177557-80-1P,
2-[2-Ethyl-8-[(carboxymethyl)oxy]-3-(o-nitrobenzyl)indolizin-1-yl]glyoxylamide 177557-82-3P, 2-[3-[(Adamant-1-yl)methyl]-8-
 [(carboxymethyl)oxy]-2-methylindolizin-1-yl]glyoxylamide
                                                                                                               177557-83-4P,
 2-[3-Benzyl-8-[(carboxymethyl)oxy]-2-cyclopropylindolizin-1-
yl]glyoxylamide 177557-84-5P, 2-[3-(p-Butylbenzyl)-8-
 [(carboxymethyl)oxy]-2-ethylindolizin-1-yl]glyoxylamide
2-[8-[(Carboxymethyl)oxy]-3-cyclohexylmethyl-2-methylindolizin-1-
yl]glyoxylamide 177557-86-7P, 2-[8-[(Carboxymethyl)oxy]-3-
cyclopentylmethyl-2-cyclopropylindolizin-1-yl]glyoxylamide 177557-87-8P,
 2-[8-[(Carboxymethyl)oxy]-3-cyclopentylmethyl-2-methylindolizin-1-
yl]glyoxylamide 177558-06-4P, 2-[3-[(Biphenyl-2-yl)methyl]-8-
[(carboxymethyl)oxy]-2-ethylindolizin-1-yl]glyoxylamide sodium salt
 177558-07-5P, 2-[3-[(Biphenyl-2-yl)methyl]-8-[[[1-
 (methoxycarbonyloxy) ethoxy] carbonyl] methoxy] -2-ethylindolizin-1-
yl]glyoxylamide
                                177558-08-6P, 2-[3-[(Bipheny1-2-yl)methyl]-2-ethyl-8-
 [[[1-(isopropyloxycarbonyloxy)ethoxy]carbonyl]methoxy]indolizin-1-
yl]glyoxylamide
                                 177558-11-1P, 2-[3-[(Biphenyl-2-yl)methyl]-8-[[[[[1-
 (cyclopentyloxycarbonyloxy)ethyl]oxy]carbonyl]methyl]oxy]-2-ethylindolizin-
1-y1]glyoxylamide 177558-12-2P, 2-[3-[(Biphenyl-2-yl)methyl]-8-[[[[1-[(cyclopentylcarbonyl)oxy]ethyl]oxy]carbonyl)methyl]oxy]-2-ethylindolizin-1-yl]glyoxylamide 177558-18-8P, 2-[3-[(Biphenyl-2-yl)methyl]-2-ethyl-8-[[(H-tetrazol-5-yl)methyl]oxy]indolizin-1-yl]glyoxylamide 177558-22-4P,
[((1H-tetrazol-5-yl)methyl]oxy]indolizin-1-yl]glyoxylamide 177558-22-42-[3-Benzyl-7-(3-carboxypropyloxy)-2-ethylindolizin-1-yl]glyoxylamide 177558-23-5P, 2-[7-(3-Carboxypropyloxy)-2-cyclopropyl-3-(o-phenylbenzyl)indolizin-1-yl]glyoxylamide 177558-24-6P, 2-[7-(3-Carboxypropyloxy)-2-ethyl-3-(o-phenylbenzyl)indolizin-1-yl]glyoxylamide 177558-25-7P, 2-[7-(3-Carboxypropyloxy)-3-cyclohexylmethyl-2-ethylindolizin-1-yl]glyoxylamide 177558-26-8P, 2-[3-[(Biphenyl-2-yl)methyl]-8-(3-carboxypropyloxy)-2-ethylindolizin-1-yl]glyoxylamide 177558-27-9P, 2-[7-[(Carboxymethyl)oxy]-2-ethyl-3-(o-phenylbenzyl)indolizin-1-yl]glyoxylamide 177558-29-1P, 2-[3-[(Biphenyl-2-yl)methyl]-8-(2-carboxyethyloxy)-2-ethylindolizin-1-
2-[3-[(Biphenyl-2-yl)methyl]-8-(2-carboxyethyloxy)-2-ethylindolizin-1-
yl]glyoxylamide
                                  177558-31-5P, 2-{3-{(Biphenyl-2-yl)methyl}-8-(2-
 carbomethoxyethyloxy)-2-ethylindolizin-1-yl]glyoxylamide
2-[7-(3-Carbethoxypropyloxy)-2-ethyl-3-(o-phenylbenzyl)indolizin-1-yl]acetamide 177558-33-7P, 2-[7-(3-Carboxypropyloxy)-2-ethyl-3-(o-phenylbenzyl)-2-ethyl-3-(o-phenylbenzyl)
 phenylbenzyl)indolizin-1-yl]acetamide 177558-35-9P, 2-[8-
 [(Carboxymethyl)oxy]-2-methylthio-3-(o-phenylbenzyl)indolizin-1-
yl]glyoxylamide 177560-01-9P, 2-{3-Benzyl-8-[(carboxymethyl)amino]-2-
 methylindolizin-1-yl]glyoxylamide
                                                                   177560-02-0P, 2-[8-
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[(Carboxymethyl)amino]-3-cyclohexylmethyl-2-methylindolizin-1-yl]glyoxylamide 182115-96-4P, 2-[3-Benzyl-8-[(carboxymethyl)oxy]-2-ethylindolizin-1-yl]glyoxylamide 182115-97-5P, 2-[8-[(Carboxymethyl)oxy]-
         2-ethyl-3-(o-phenylbenzyl)indolizin-1-yllglyoxylamide
                                                                                                             182115-98-6P.
         2-[8-[(Carboxymethyl)oxy]-3-(m-chlorobenzyl)-2-ethylindolizin-1-
        yl|glyoxylamide 182115-99-7P, 2-[8-((Carboxymethyl)oxy]-2-ethyl-3-(m-
         trifluoromethylbenzyl) indolizin-1-yllglyoxylamide 182116-00-3P,
         2-[8-[(Carboxymethyl)oxy]-2-ethyl-3-[(1-naphthyl)methyl]indolizin-1-
        y||g|yoxylamide 182116-01-4P, 2-[8-[(Carboxymethyl)oxy]-2-cyclopropyl-3-

(o-phenylbenzyl)indolizin-1-yl]glyoxylamide 182116-02-5P,

2-[3-Benzyl-8-[(carboxymethyl)oxy]-2-methylindolizin-1-yl]glyoxylamide
        182116-03-6P, 2-[8-[(Carboxymethyl)oxy]-2-ethyl-3-(4-pentylcyclohexylmethyl)indolizin-1-yl]glyoxylamide 182116-43-4P,
        pentylcyclonexylmethyl) indolizin-1-yljglyoxylamide 12216-43-48,

2-[7-(5-Carboxypentyloxy)-2-ethyl-3-(o-phenylbenzyl) indolizin-1-

yl]glyoxylamide 182116-46-7P, 2-[3-[(Biphenyl-2-yl)methyl]-2-methyl-8-

[(pyridin-2-yl)methoxy]indolizin-1-yl]glyoxylamide 182116-47-8P,

2-[3-[(Biphenyl-2-yl)methyl]-2-methyl-8-[(pyridin-4-yl)methoxy]indolizin-1-
        yl]glyoxylamide 182116-48-9P, 2-[3-[(Biphenyl-2-yl)methyl]-2-methyl-8-
        [(quinolin-2-y1)methoxy]indolizin-1-y1]glyoxylamide 182116-50-3P, 2-[3-Benzy1-8-[(carboxymethy1)oxy]-2-ethylindolizin-1-y1]-N-
        methylglyoxylamide 182116-51-4P, 2-[3-Benzyl-8-[(carboxymethyl)oxy]-2-
        ethylindolizin-1-yl]-N, N-dimethylglyoxylamide 622836-01-5P,
        2-[8-[(Carboxymethyl)oxy]-2-ethyl-3-(1-naphthyl)indolizin-1-yl]acetamide
         622836-06-0P, 2-[8-[(Carboxymethyl)oxy]-2-ethyl-3-(o-
         phenylbenzyl) indolizin-1-yl]-N,N-dimethylglyoxylamide
         622836-08-2P, 2-[8-[[(1H-Tetrazol-5-yl)methyl]oxy]-2-ethyl-3-[(1-
        naphthyl)methyl]indolizin-1-yl]glyoxylamide 622836-38-8P,
        | Table | | | Table | | | Table | | 
        pentylcyclohexylmethyl)indolizin-1-yl]glyoxylamide sodium salt
         622836-40-2P, 2-[8-[(Carboxymethyl)oxy]-3-cyclohexylmethyl-2-
        methylindolizin-1-yl]glyoxylamide sodium salt 622836-41-3P,
         2-[8-[(Carboxymethyl)oxy]-3-cyclopentylmethyl-2-methylindolizin-1-
        yl]glyoxylamide sodium salt 622836-43-5P, 2-[3-[(Biphenyl-2-yl)methyl]-8-
         [[[[(tert-butoxycarbonyl)methyl]oxy]carbonyl]methyl]oxy]-2-ethylindolizin-
         1-yl]glyoxylamide 622836-44-6P, 2-[3-[(Biphenyl-2-yl)methyl]-8-[[[[{1-
         (cyclohexyloxycarbonyl)ethyl]oxy]carbonyl]methyl]oxy]-2-ethylindolizin-1-
        yl]glyoxylamide 622836-45-7P, 2-[3-[(Biphenyl-2-yl)methyl]-2-ethyl-8-
         [[[[1-[(1-methylcyclopentyloxy)carbonyl]ethyl]oxy]carbonyl]methyl]oxy]ind
        olizin-1-yl]qlyoxylamide 622836-46-8P, 2-[3-[(Biphenyl-2-yl)methyl]-2-
        ethyl-8-[[[[[2-(morpholino)ethyl]oxy]carbonyl]methyl]oxy]indolizin-1-
        yl]glyoxylamide 622836-47-9P 622836-48-0P, 2-[3-[(Biphenyl-2-
        y1)methy1]-2-ethy1-8-[[[(2-oxopropy1)oxy]carbony1]methoxy]indolizin-1-
        yl]glyoxylamide 622836-49-1P, 2-[3-[(Biphenyl-2-yl)methyl]-2-ethyl-8-
[[(1-trityltetrazol-5-yl)methyl]oxy]indolizin-1-yl]glyoxylamide
        622836-50-4P, 2-[7-(2-Carboethoxyethyloxy)-2-ethyl-3-(o-
        phenylbenzyl)indolizin-1-yl)glyoxylamide 622836-58-2P, 2-{3-(Biphenyl-2-yl)-8-{(carboxymethyl)oxy}-2-methoxyindolizin-1-
        yl]glyoxylamide
        RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
         (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
         (Uses)
              (sPLA2 inhibitor; prepn. of indolizines as inhibitors of sPLA2 mediated
              release of fatty acids)
        ANSWER 2 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN
        1988:5780 CAPLUS
        108:5780
         6-(1-carbamoyl-1-hydroxymethyl)penicillanic acid derivatives, their
        preparation, and their use as antibacterial agents and/or .beta.-lactamase
         inhibitors
        Barth, Wayne Ernest
        Pfizer Inc., USA
        Eur. Pat. Appl., 138 pp.
         CODEN: EPXXDW
        Patent
        English
FAN.CNT 1
        PATENT NO.
                                       KIND DATE
                                                                             APPLICATION NO. DATE
        EP 220939
                                                  19870506
                                                                             EP 1986-308235
                                                                                                            19861023
                                        Al
               R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE
        WO 9006928
                                                 19900628
                                                                             WO 1985-US2134 19851029
                                        A1
               W: US
        DK 8605143
                                                                             DK 1986-5143
        JP 62142183
                                         A2
                                                  19870625
                                                                             JP 1986-258106
                                                                                                            19861029
        JP 06092417
                                         В4
                                                  19941116
        US 4797394
                                                  19890110
                                                                             US 1987-85675
                                                                                                            19870605
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US 4868296 19890919 19851029 PRAI WO 1985-US2134 US 1987-85675 19870605 CASREACT 108:5780

US 1988-243568 19880912

R1R2NCOCH (OH)

III, R3=R4=Br IV,  $R^3=Br$ ,  $R^4=CH$  (OH)  $CO_2CH_2CH=CH_2$ V,  $R^3 = H$ ,  $R^4 = CH (OH) CO_2 CH_2 CH = CH_2$ CO2CH2Ph VI,  $R^3=H$ ,  $R^4=CH(OH)CO_2H$ 

Title compds. I [n = 0-2; R = H, ester group hydrolyzable under physiol.conditions, acyloxymethyl or 1-(acyloxy)ethyl derived from conventional .beta.-lactam antibiotics; R1, R2 = H, (un)substituted Ph, phenylalkyl, cycloalkyl, naphthyl, azolyl, etc.; NR1R2 = pyrrolidino, piperidino, morpholino, 1,2,3,4-tetrahydroquinolinyl, etc. and their salts, useful as antibacterial agents and/or .beta.-lactamase inhibitors (no data), were prepd. by a) hydrogenolysis of I (R = CH2Ph) and optionally b) converting the compd. to a cationic salt or c) converting the compd. to an acid addn. salt if the compd. contains a basic N atom. Further, the compds. may be converted to physiol. hydrolyzable esters or to acyloxymethyl or 1-(acyloxy) ethyl esters derived from conventional .beta.-lactam antibiotics. The benzyl ester was prepd. by a) reacting a cyclic anhydride II (q = 0, 2) with HNR1R2 and b) if desired, oxidizing the resulting 6-carbamoyl benzyl ester I (R = CH2Ph, n = 0) to a benzyl ester (n = 1 or 2) with 1 or 2 mol equiv 3-ClC6H4C(O)OOH. II are prepd. by a) reacting 6-dibromo compds. III with 1 mol equiv methylmagnesium Grignard reagent and then with H2C:CHCH2OCOCHO to form allyl ester IV; b) debromination to give V; c) hydrolysis to give the acid VI; and d) reaction with COCl2 in the presence of tertiary amine. Benzyl 6,6-dibromopenicillanate (III, q=0) was treated with MeMgBr at -78.degree., then allyl glyoxalate at -78.degree to give (R)- and (S)-IV (q = 0) the (R)-isomer of which was debrominated to give (S)-V (q = 0). Treating this with BuCHEtCO2Na, then Pd(PPh3)4 gave the Na salt of (S)-VI which was successively treated with COCl2 and NH4OH to give (S)-I (R = Which was successively treated with coulz and maken to give (s)-1 (k = CH2Ph, R1 = R2 = H, n = 0). Hydrogenolysis in the presence of NaHCO3 and 10% Pd/C gave (S)-1 (R = Na, R1 = R2 = H, n = 0).

4706-32-5P, N-Glyoxyloylpiperidine 16423-59-9P, N-Glyoxyloylmorpholine 79036-50-3P, N,N-Dimethylglyoxylamide 106435-93-2P, N-Glyoxyloylpyrrolidine 111605-39-1P, N-Isopropylglyoxylamide

RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)

75-16-1, Methylmagnesium bromide TT

RL: RCT (Reactant); RACT (Reactant or reagent) (reaction of, with benzyl dibromopenicillanate and dimethylglyoxylamide)

16423-59-9, N-Glyoxyloylmorpholine 64370-42-9, Allyl IT 4706-32-5 glyoxalate glyoxalate 79036-50-3, N,N-Dimethylglyoxylamide N-Glyoxyloylpyrrolidine 111605-39-1 RL: RCT (Reactant); RACT (Reactant or reagent) 106435-93-2,

(reaction of, with benzyl dibromopenicillanate and methylmagnesium bromide)

TT 35564-99-9, Benzyl 6,6-dibromopenicillanate RL: RCT (Reactant); RACT (Reactant or reagent) (reaction of, with methylmagnesium bromide and dimethylglyoxylamide)

ANSWER 3 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN L5 1986:552787 CAPLUS AN

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10/620209
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DN

53:1738 OREF 53:227d-f

Glyoxylic acid derivatives

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DN
      105:152787
       Synthesis of psilocin labeled with carbon-14 and tritium
TI
      Poon, Grace; Chui, Yun Cheung; Law, Francis C. P. Dep. Biol. Sci., Simon Fraser Univ., Burnaby, BC, V5A 1S6, Can.
AU
CS
so
      Journal of Labelled Compounds and Radiopharmaceuticals (1986), 23(2),
       CODEN: JLCRD4; ISSN: 0362-4803
DT
      Journal
      English
LA
os
      CASREACT 105:152787
               XNMe<sub>2</sub>
                        Ŧ
      14C- and 3H-labeled psilocin (I. X = CH214CH2; C3H2C3H2) tryptamine), the
      principal active agent of hallucinogenic mushrooms, was synthesized from 2-methyl-3-nitrophenol via 4-benzyloxyindole. 4-Benzyloxygramine was
      treated with K14CN to give 14C-4-benzyloxy-3-indoleacetic acid, an intermediate for I (X = CH214CH2). LiAl3H4 was used to reduce
      4-benzyloxy-3-indole-N,N-dimethylglyoxylamide to give I (X =
      C3H2C3H2).
AR
      14C- and 3H-labeled psilocin (I, X = CH214CH2; C3H2C3H2) tryptamine), the
      principal active agent of hallucinogenic mushrooms, was synthesized from
      2-methyl-3-nitrophenol via 4-benzyloxyindole. 4-Benzyloxygramine was
      treated with K14CN to give 14C-4-benzyloxy-3-indoleacetic acid, an
      intermediate for I (X = CH214CH2). LiAl3H4 was used to reduce
      4-benzyloxy-3-indole-N,N-dimethylglyoxylamide to give I (X =
      C3H2C3II2).
      ANSWER 4 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN
1.5
AN
      1959:28666 CAPLUS
DN
      53:28666
OREF 53:5137e-g
ΤI
      Glyoxylamide derivatives
IN
      Whitfield, Gordon H.
PA
      Imperial Chemical Industries Ltd.
DT
      Patent
LA
      Unavailable
FAN.CNT 1
      PATENT NO.
                            KIND DATE
                                                       APPLICATION NO. DATE
                            ----
PΤ
      GB 797604
                                    19580702
                                                       GB
      N,N-Dialkyl substituted glyoxylamide derivs., useful as herbicides were
AB
      prepd. Me2NCOCH(OH)NMe2 (I) (b8 70-3.degree.) (41.2 g.) was dissolved in 50 ml. MeOH and poured into a column (1 1/2'' .times. 3') packed with 500
      g. polystyrenesulfonic acid cation-exchange resin, the resin washed with
      two 500 ml. portions MeOH, and 2 eluate fractions were collected. Removal
      of MeOH from the 1st eluate and distn. of the residue gave 20.69 g. N, N-
      dimethylglyoxylamide Me hemiacetal (II), b20 82.86.degree..
      Similar treatment of the 2nd MeOH eluate gave 3.78 g. II. Exposure of II
      to moist air or treatment with the theoretical amt. of H2O gave
      Me2NCOCHO-0.5H2O (III), m. 121.degree. Similar treatment of I in H2O gave III, m. 121-2.degree., directly. Cf. C.A. 53, 227d.

N,N-Dialkyl substituted glyoxylamide derivs., useful as herbicides were prepd. Me2NCOCH(OH)NMe2 (I) (b8 70-3.degree.) (41.2 g.) was dissolved in 50 ml. MeOH and poured into a column (1 1/2'' .times. 3') packed with 500
      q. polystyrenesulfonic acid cation-exchange resin, the resin washed with
      two 500 ml. portions MeOH, and 2 eluate fractions were collected. Removal
      of MeOH from the 1st eluate and distn. of the residue gave 20.69 g. N,N-dimethylglyoxylamide Me hemiacetal (II), b20 82.86.degree..
      Similar treatment of the 2nd MeOH eluate gave 3.78 g. II. Exposure of 11
      to moist air or treatment with the theoretical amt. of H2O gave
      \label{eq:me2NCOCHO-0.5H2O} \mbox{ (III), m. 121.degree.} \quad \mbox{Similar treatment of I in H2O gave III, m. 121-2.degree., directly. Cf. C.A. 53, 227d.}
      ANSWER 5 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN
L5
      1959:1738 CAPLUS
AN
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=> s e4-e6

1 61960-32-5/BI (61960-32-5/RN) 1 79036-50-3/BI (79036-50-3/RN) 1 939-71-9/BI (939-71-9/RN)

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3 (61960-32-5/BI OR 79036-50-3/BI OR 939-71-9/BI)

=> d scan

L7 3 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN IN 1,3-Benzodioxole-2-carboxamide (6CI, 7CI, 8CI) MF C8 H7 N O3

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):2

L7 3 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN IN Acetamide, 2-hydroxy-2-methoxy-N,N-dimethyl- (9CI) MF C5 H11 N O3

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L7 3 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN IN Acetamide, N,N-dimethyl-2-oxo- (9CI) MF C4 H7 N O2

o || me2n-c-cho IN Whitfield, Gordon H.

PA Imperial Chemical Industries Ltd.

DT Patent

LA Unavailable

PATENT NO.

FAN.CNT 1

KIND DATE

APPLICATION NO. DATE

PI GB 793807

19580423

GB

R1R2NCOCHO, where R1 and R2 are alkyl groups, is prepd. by treating R1R2NCO with LiC.tplbond.CH to yield R1R2NCOCH(OLi)NR1R2 followed by hydrolyzing to R1R2NCOCH(OH)NR1R2 (I). I with an acid gives R1R2NCOCHO and the acid salt of R1R2NH. E.g., 219 g. Me2NCO added dropwise to 16 g. LiC.tplbond.CH in 150 ml. boiling MePh, reftuxed 0.5 hr., and MePh and unreacted Me2NCO distd. in vacuo left 108 g. Me2NCOCH(OLi)NMe2 (II). II added to 250 ml. II2O, extd. with ether, dried, and distd. yielded Me2NCOCH(OH)NMe2 (III), b8.0 70-3.degree.. A small portion of III with 2.4-dinitrophenylhydrazine sulfate yielded N,N-dimethylglyoxylamide 2,4-dinitrophenylhydrazone, m. 208.degree.. III is useful as an intermediate in the prepn. of herbicides and pharmaceuticals.

AB R1R2NCOCHO, where R1 and R2 are alkyl groups, is prepd. by treating R1R2NCO with LiC.tplbond.CH to yield R1R2NCOCH(OLi)NR1R2 followed by hydrolyzing to R1R2NCOCH(OH)NR1R2 (I). I with an acid gives R1R2NCOCHO and the acid salt of R1R2NH. E.g., 219 g. Me2NCO added dropwise to 16 g. LiC.tplbond.CH in 150 ml. boiling MePh, reftuxed 0.5 hr., and MePh and unreacted Me2NCO distd. in vacuo left 108 g. Me2NCOCH(OLi)NMe2 (II). II added to 250 ml. H2O, extd. with ether, dried, and distd. yielded Me2NCOCH(OH)NMe2 (III), b8.0 70-3.degree.. A small portion of III with 2,4-dinitrophenylhydrazine sulfate yielded N,N-dimethylglyoxylamide 2,4-dinitrophenylhydrazone, m. 208.degree.. III is useful as an intermediate in the prepn. of herbicides and pharmaceuticals.

10/620209

=> d scan

3 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN Glycolamide, 2-dimethylamino-N,N-dimethyl- (6CI) C6 H14 N2 O2 IN

MF

CI COM

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):2

3 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN Acetic acid, oxo- (9CI)

IN

C2 H2 O3 MF

CI COM

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

3 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN Acetamide, 2-[(2,4-dinitrophenyl)hydrazono]-N,N-dimethyl- (9CI) C10 H11 N5 O5 L6 IN

MF

## 10/620209

## => d his

(FILE 'HOME' ENTERED AT 17:57:21 ON 16 JAN 2004)

FILE 'CAPLUS' ENTERED AT 18:00:09 ON 16 JAN 2004

E SCHLOEMER G/IN

17 S E4-E6

0 S L1 AND ACETAMIDE?

0 S L1 AND IMIDAZO?

7 S L1 AND PROCESS

Ll

L2 L3

L4

=>

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ANSWER 1 OF 7 CAPLUS COPYRIGHT 2004 ACS on STN
           CAPLUS
2003:222366
138:238439
```

Production of benazepril and analogs by kinetic resolution of an intermediate Tseng; Wei-Hong; Cheng, Kau-Ming; Schloemer, George; Chen,

Chien-Wen; Cheng, Chih-Wen PA

Scinopharm Taiwan, Ltd., Taiwan U.S. Pat. Appl. Publ., 7 pp., Cont.-in-part of U.S. Ser. No. 910,509. CODEN: USXXCO

Patent English LA

FAN.CNT 2				
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI . US 2003055245	Al	20030320	US 2002-151772	20020521
US 2002183515	A1	20021205	US 2001-910509	20010719
US 6548665	B2	20030415		
PRAI US 2001-291888P	P	20010518	•	

20010719

US 2001-910509 MARPAT 138:238439 os

GI

A2

A process for the prepn. of benazepril and analogs I by reaction of compd. II [Z1 = halogen] with compd. III [R1 = H, alkyl or a combination of H and alkyl; R2 = alkyl] in a polar solvent via epimerization and kinetic resoln. of intermediate catalyzed by phase transfer catalyst was developed. Thus, coupling of L-homophenylalanine Et ester to 3-bromo-2,3,4,5-tetrahydro-1H-1-benzapin-2-one using sodium iodide, epimerization and kinetic resoln. of intermediate carboxylic acid, followed by esterification gave compd. (S,S)-I (R1 = H, R2 = Et) in 80% yield and the ratio of enantiomers detd. by HPLC is SS:RR > 99.5:0.5.

## => d 2-7 bib abs

ANSWER 2 OF 7 CAPLUS COPYRIGHT 2004 ACS on STN 1.4

2002:736940 CAPLUS AN

DN 137:263201

Process for making taxane derivatives TI

Schloemer, George; Chen, Yung-fa; Lin, Chien Hsin; Daniewski, Wlodzimierz

Scinopharm Taiwan, Ltd., Taiwan PA

so U.S. Pat. Appl. Publ., 9 pp. CODEN: USXXCO

DΤ Patent

LΑ English

	CNT 1				
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2002137955	A1	20020926	US 2001-815517	20010323
	US 6531611	B2	20030311		
	WO 2002076967	A1	20021003	WO 2001-US9348	20010323
	W: CN, JP				
	RW: AT, BE,	CH, CY	, DE, DK, ES,	FI, FR, GB, GR, IE	, IT, LU, MC,
	PT, SE,	TR	•		

NL,

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PRAI US 2001-815517 A 20010323
OS CASREACT 137:263201; MARPAT 137:263201
GI
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* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *
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The present invention provides a novel semi-synthetic method of producing
     a variety of novel taxane derivs. I (R1 = alkoxy, R2 = alkoxy, H; R3 =
     alkyl; R4 = alkyl, aryl; X = protective group) by reaction of a phenylisoserine deriv. II with a suitably blocked Baccatin III deriv. III.
     I may be further modified to form pactitaxel and other potentially useful
     taxane derivs. Thus, III (R1 = R2 = MeO; R3 = Me; R4 = Ph), prepd. from
     (2R,3S)-phenylisoserine-HCl and .alpha.-methylcinnamic acid, was treated with 7-triethylsilylbaccatin III to give the corresponding I, which was
     converted to paclitaxel in 4 steps.
     ANSWER 3 OF 7 CAPLUS COPYRIGHT 2004 ACS on STN
     2002:290826 CAPLUS
AN
     136:310051
DN
     Process for the preparation of 4,4'-diketo-.beta.-carotene
     Schloemer, George C.; Schloemer, Danuta A.; Davis, Jeffery L.
IN
     Prodemex, S.A. D.B.C.V., Mex.
PA
SO
     U.S., 4 pp.
     CODEN: USXXAM
DT
     Patent
     English
LΑ
FAN.CNT 1
                                              APPLICATION NO. DATE
     PATENT NO.
                       KIND
                             DATE
                              20020416
                                              US 2001-953007
                                                                20010913
     US 6372946
                                              NO 2002-4266
                                                                20020906
     NO 2002004266
                        A
                              20030314
     CN 1417207
                        A
                              20030514
                                              CN 2002-141620
                                                                20020906
     EP 1293499
                        A1
                              20030319
                                              EP 2002-256236
                                                                20020909
         R: AT, BE, CH, DE, DK, BS, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK
                              20010913
PRAI US 2001-953007
                        Α
     CASREACT 136:310051
     A method of prepg. .beta.-carotene derivs. such as canthaxanthin and
     astaxanthin was described. The method employs an in situ system to
     generate hypobromous acid as the oxidizing agent using a salt of sulfite,
     hydrogen sulfite or bisulfite in combination with a bromate salt.
     Astaxanthin and canthaxanthin were obtained in good yield with a
     significantly reduced reaction time. Thus, zeaxanthin was oxidized using
     sodium hydrogen sulfite in chloroform to form axtaxanthin.
               THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE.CNT
               ALL CITATIONS AVAILABLE IN THE RE FORMAT
     ANSWER 4 OF 7 CAPLUS COPYRIGHT 2004 ACS on STN
     2001:798186 CAPLUS
AN
DN
     135:344616
     Oxidative process for the preparation of astaxanthin from
TI
     zeaxanthin using a halogenating agent with the salt of chloric or bromic
     acid in an inert solvent
     Schloemer, George C.; Davis, Jeffery L. Prodemex, S.A. de C.V., Mex.
IN
SO
     PCT Int. Appl., 12 pp.
     CODEN: PIXXD2
DТ
     Patent
LA
     English
FAN.CNT 1
                        KIND DATE
                                              APPLICATION NO. DATE
     PATENT NO.
     WO 2001081301
                        A2
                              20011101
                                              WO 2001-US13295 20010425
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AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, CZ, DE, DE, DK, DK, DM, DZ, EE, EE, ES, FI, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU,

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

US 2001-813685

20010319

TJ, TM

**A**1

20011213

US 2001051357

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US 6376717
                       B2
                           20020.
                                            EP 2001-932633
                                                              20010425
     BP 1276719
                       A2
        R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
                                            NO 2001-6293
                                                              20011220
     NO 2001006293
                      A
                            20020211
                                                              20011221
     ZA 2001010503
                            20020829
                                            ZA 2001-10503
PRAI US 2000-199875P
                       P
                             20000426
     US 2001-813685
                       Α
                            20010319
     WO 2001-US13295
                       W
                             20010425
     CASREACT 135:344616
OS
     Astaxanthin is prepd. from zeaxanthin by oxidn. using a halogenating agent
AB
     with the salt of chloric or bromic acid in an inert solvent.
     ANSWER 5 OF 7 CAPLUS COPYRIGHT 2004 ACS on STN
T.4
     1996:689881 CAPLUS
AN
     126:19174
DN
     Preparation of acyclovir using 1,3 dioxolane
ΤI
     Schloemer, George C.; Han, Yeun-kwei; Harrington, Peter J.
IN
     Syntex (U.S.A.) Inc., USA
PA
     U.S., 8 pp., Cont.-in-part of U.S. Ser. No. 280,269, abandoned.
SO
     CODEN: USXXAM
DT
     Patent
LΑ
     English
FAN.CNT 2
                                            APPLICATION NO. DATE
     PATENT NO.
                      KIND DATE
                                            CA 1995-2152863 19950427
DP 1995-176022 19950712
DP 1995-1100-
     US 5567816
                       Α
                            19961022
     CA 2152863
                       AA
                            19960127
     JP 08053451
                       A2
                            19960227
                                            EP 1995-110955
     EP 709385
                       A1
                            19960501
        R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE
                                            CN 1995-115316
     CN 1122805
                       Α
                            19960522
                                                              19950725
                                            BR 1995-3442
     BR 9503442
                       A
                             19960604
                                                              19950725
     FI 9503580
                             19960127
                                            FI 1995-3580
                                                              19950726
PRAI US 1994-280269
                             19940726
     US 1995-426005
                            19950427
    A process for the prepn. of acyclovir via coupling of guanine or
     silylated guanines with 1,3-dioxolane in the presence of a selective
     alkylation catalyst selected from the group consisting of
     trifluoromethanesulfonic acid, trimethylsilyl trifluoromethanesulfonate,
     and bistrimethylsilyl sulfonate, and hydrolyzing the product thus formed.
     ANSWER 6 OF 7 CAPLUS COPYRIGHT 2004 ACS on STN
L4
     1996:313501 CAPLUS
AN
DN
     124:343989
     Method for producing 9-(2-hydroxyethoxymethyl)guanine (acyclovir) as
TI
     antiviral agent
     Han, Yuen-Kwei; Harrington, Peter John; Schloemer, George Charles
IN
     F. Hoffmann-La Roche Ag, Switz.
PA
     Can. Pat. Appl., 28 pp.
so
     CODEN: CPXXEB
рΤ
     Patent
     English
LA
FAN.CNT 2
                                            APPLICATION NO. DATE
     PATENT NO.
                       KIND
                            DATE
                             19960127
                                            CA 1995-2152863
                                                              19950628
     CA 2152863
                       AA
PΙ
                                            US 1995-426005
                                                              19950427
                             19961022
     US 5567816
                       Α
PRAI US 1994-280269
                             19940726
     US 1995-426005
                             19950427
     CASREACT 124:343989; MARPAT 124:343989
OS
GI
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AB An efficient and selective process for the synthesis of the antiviral 9-(2-hydroxyethoxymethyl)guanine (acyclovir) (I) involves (1) contacting a silylated guanine or mixts. of silylated guanine (II; Z1, Z2, Z3 = H, R1R2R3Si; wherein R1 - R3 = lower alkyl; provided that at least one of Z1 -Z3 = R1R2R3Si) with 1,3-dioxolane (III) in the presence of a selective alkylation catalyst and (2) hydrolyzing the product formed. Said catalyst is selected form CF3SO3H. CF3SO3SiMe3, and bis(trimethylsilyl) sulfonate and CF3SO3SiMe3 is generated by contacting CF3SO3H with hexamethyldisilazane. The process avoids the use of acyl groups for protection of guanine, essentially specific for the prepn. of the N-9 isomer, thus eliminates the need for the chromatog. sepn. of the N-9/N-7 isomer mixts., provides I in good yields, requires simple starting materials and reaction conditions, and is carried out from start to finish in a single reaction vessel. Thus, a mixt. of 25 g guanine, 125 mL hexamethyldisilazane, and 1 mL CF3SO3SiMe3 was refluxed at 130-135.degree. for 24 h, cooled to 70.degree., treated with 25 mL 1,3-dioxolane, refluxed for 16 h, distd. under reduced pressure to remove excess hexamethyldisilazane, cooled to 70.degree., poured into a mixt. of 600 mL 10% aq. AcOH, and heated to give a soln. The soln. was treated with 1.25 g activated carbon to remove any color, filtered, and the filtrate was slowly cooled to 5.degree. to give, after filtering off the white cryst. solid formed, 78% I.

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L4 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2004 ACS on STN
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AN 1989:23725 CAPLUS

DN 110:23725

TI Process for preparing (.+-.)-1,2-dihydro-3H-pyrrolo[1,2-a]pyrrole-1,7-dicarboxylates as intermediates for pharmaceuticals

IN Khatri, Hiralal N.; Fleming, Michael P.; Schloemer, George C.

PA Syntex (U.S.A.), Inc., USA SO Eur. Pat. Appl., 28 pp.

SO Eur. Pat. Appl., 28 pp CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

PAN.C										
									ON NO.	DATE
							EP	1988-1	00390	19880113
						20603				
									LU, NL	
										19870114
	US	48495	526	A	. 198	190718	US	1987-3	104	19870114
	DK	88001	143	Α	198					19880113
	FI	88001	133	A	198	380715	FI	1988-1	33	19880113
		90344			199	931015				
	FΙ	90344	1 .	С		940125				
	NO	88003	127	A	198	380715	NO	1988-1	27 '	19880113
	NO	16912	24	В	199	920203				
	NO	16912	24	С	199	920513				
	ΑU	88102	240	A1	198	380721	ΑU	1988-1	0240	19880113
	ΑU	61333	34	B2		910801				
	JР	63198	3684	A2						19880113
	ZA	88002							25	
	HU	48881	l	A2	198	391128	HU	1988-1	17	19880113
	HU	20060	)6	В	<b>19</b> 9	900728				
	HU	51599	ō	A2	199	900528	HU	1989-5	354	19880113
	HU	20172	28	В	199	901228				
	HU	52045	5	A2	199	<b>∌</b> 00628	HU	1989-5	355	19880113
	HU	20353	32	В	199	910828				
	ΗU	52046	5	A2	199	900628	HU	1989-5	356	19880113

	HΨ	203721	В	19910930			
	ΙL	85094	A1	19910916	ΙL	1988-85094	19880113
	IL	96388	A1	19910916	IL	1988-96388	19880113
	IL	96389	A1	19910916	IL	1988-96389	19880113
	AT	76873	E	19920615	ΑT	1988-100390	19880113
	ES	2041703	<b>T</b> 3	19931201	ES	1988-100390	19880113
	ΗU	213614	В	19970828	HU	1990-1266	19880113
	CA	1340404	A1	19990223	CA	1988-556465	19880113
	US	4874872	A	19891017	US	1988-255799	19881011
	US	4937368	A	19900626	US	1989-299701	19890123
	NO	9003993	A	19880715	NO	1990-3993	19900913
	NO	174583	В	19940221			
	NO	174583	C	19940601			
	NO	9003994	A	19880715	NO	1990-3994	19900913
	NO	174346	В	19940110			
	NO	174346	C	19940420			
	NO	9003995	A	19880715	NO	1990-3995	19900913
	NO	173828	В	19931101			
	NO	173828	C	19940209			
	FΙ	92488	В	19940815	FΙ	1991-2709	19910605
	FI	92488	C	19941125			•
		95242	В	19950929	ΡI	1991-2710	19910605
		95242	С	19960110			
		91148	В	19940215	FΙ	1993-320	19930126
		91148	C	19940525			
PRAÍ		1987-3104	A	19870114			
		1987-3162	A	19870114			
		1988-100390	A	19880113			
		1988-117	A	19880113			
		1988-85094	A	19880113			
		1988-127	Al	19880113			
os	CA:	SREACT 110:2372	5; MA	RPAT 110:23725			
GT							

AB A process for producing diesters I (R = alkyl), useful as intermediates for pharmaceuticals II [Ar = alkyl, alkoxy, or halo (un)substituted Ph, 2- or 3- furoyl, 2- or 3-thienyl, 2- or 3-pyrryl; R = H, alkyl) useful as analgesics, antiinflammatories, antipyretics, and smooth muscle relaxants (no data), comprised: a) cyclizing pyrrole III (X = halo) with a hindered amine in an aprotic polar solvent; or b) reacting pyrrolidine IV with XCH2CHO (X = halo) in aq. soln. I (R = alkyl) are sapond. to I (R = H) which are monoesterified to I (R at 1 = alkyl, R at 7 = H) which are decarboxylated to II (no ArCO group). These are aroylated with an amide or morpholide to give II. I (R = H), which had been prepd. in 5 steps from BrCH2CH2NH2.HBr and (MeO2CCH2)2CO was converted in 4 steps into II (Ar = 4-MeC6H4, R = H).

L Number	Hits	Search Text	DB	Time stamp
1	3478	phosphorus adj tribromide	USPAT;	2004/01/16 17:19
			US-PGPUB	
2	30687	thionyl adj chloride	USPAT;	2004/01/16 17:20
			US-PGPUB	
3	315	(phosphorus adj tribromide) near (thionyl adj chloride)	USPAT;	2004/01/16 17:20
			US-PGPUB	·
4	593	imidazopyridine .	USPAT;	2004/01/16 17:21
1			US-PGPUB	
5	0	((phosphorus adj tribromide) near (thionyl adj chloride)) and	USPAT;	2004/01/16 17:20
		imidazopyridine	US-PGPUB	
6	271	imidazopyridines	USPAT;	2004/01/16 17:21
į			US-PGPUB	
7	745	imidazopyridine or imidazopyridines	USPAT;	2004/01/16 17:21
		•	US-PGPUB	
8	0	(imidazopyridine or imidazopyridines) and ((phosphorus adj	USPAT;	2004/01/16 17:22
		tribromide) near (thionyl adj chloride))	US-PGPUB	
9	11485	halogenating	USPAT;	2004/01/16 17:22
			US-PGPUB	
10	0	((phosphorus adj tribromide) near (thionyl adj chloride)) near	USPAT;	2004/01/16 17:22
		halogenating	US-PGPUB	
11	180	((phosphorus adj tribromide) near (thionyl adj chloride)) same	USPAT;	2004/01/16 17:45
		halogenating	US-PGPUB	
1,2	3	(((phosphorus adj tribromide) near (thionyl adj chloride)) same	USPAT;	2004/01/16 17:47
		halogenating) and sleep	US-PGPUB	
13	113	hydrolysis and (((phosphorus adj tribromide) near (thionyl adj	USPAT;	2004/01/16 17:47
•		chloride)) same halogenating)	US-PGPUB	0004/04/40 477 477
14	310	hydrolysis same (phosphorus adj tribromide) (((phosphorus adj	USPAT;	2004/01/16 17:47
		tribromide) near (thionyl adj chloride)) same halogenating)	US-PGPUB	0004/04/40 477.40
15	1	hydrolysis same (((phosphorus adj tribromide) near (thionyl adj	USPAT;	2004/01/16 17:48
		chloride)) same halogenating)	US-PGPUB	